

Notice of Allowability

Application No.

10/047,958

Applicant(s)

IMAURA, TAKESHI

Examiner

Mary J. Steelman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/3/2006.
2. ☒ The allowed claim(s) is/are 1-28 (to be renumbered in order).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 4/3/2006
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

1. This Office Action is in response to RCE received 3 April 2006.

The prior Office Action, dated 3/6/2006 (Notice of Allowance) is hereby withdrawn.

Claims 1-28 are pending.

Information Disclosure Statement

2. IDS submitted 3 April 2006 has been considered.

Allowable Subject Matter

3. Claims 1-28 (to be renumbered in order) are allowed.
4. The following is an examiner's statement of reasons for allowance:

As Applicant has noted in Remarks received 5/24/2005 (page 15, last paragraph – page 16^{2nd} paragraph), regarding the present invention, the conversion of XML into ASN.I is executed by referring to a Document Type Definition (DTD) which is neither taught nor suggested in Imamura. The architecture of the ASN.I to XML translator (section 4.2 spanning pages 61-62 of Imamura) is not the same as the XML encoding method of the present invention of Figure 1 and the XML, decoding method of the present invention. Imamura does not teach a parsing step to remove the XML content text of a syntactic element and subsequent compressing the contents of the syntactic element as set forth in Claim 1 for combination with an ASN.I transfer syntax. Imamura does not teach or suggest the generation of an ASN.I abstract transfer syntax value that is combined with the compressed XML element content (text) data to form the encoded XML.

Regarding independent claim 1, Imamura and other cited prior art, taken alone or in combination, fail to disclose:

“separating said XML data into contents comprising text of a syntactic element and a structure representing the syntactic element comprising an element name including the structure...compressing said text contents of said syntactic element, and combining the compressed text contents of said syntactic element and said ASN.1 transfer syntax to thereby generate encoded XML data.”

Limitations are similarly recited in independent claim 11, and the reverse (decompression) is similarly recited in independent claims 6 and 16.

Thus, all remaining dependent claims, claims 2-5, 7-10, 12-15, 17-28 are allowed. Claims are to be renumbered in order.

IDS document, JP 2000-101442 (US Patent 6,871,320 B1 to Morihara et al.) compresses tag and data of a structured document thereby (col. 2, lines 66-67) “shortening a time to retrieve or read a document and minimizing an increase in capacity of a memory.”

In contrast, the instant application sequences through a series of conversions (see [0194-0217]) to produce a PER encoded ASN.1 object (used in communication transmissions) which is

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combined with compressed text resulting in compression efficiency. See [0433], "The XML data encoding (compression) efficiency can be improved, and XML data, including descriptions other than the elements, such as attributes, can be encoded (compressed). Thus the communication load imposed by the transfer of XML data can be reduced, as can the capacity of the storage areas that are used for XML data."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary Steelman, whose telephone number is (571) 272-3704. The examiner can normally be reached Monday through Thursday, from 7:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached at (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mary Steelman

07/19/2006

A handwritten signature in cursive script, appearing to read "Mary Steelman", is positioned to the right of the typed name.